

FIG. 1

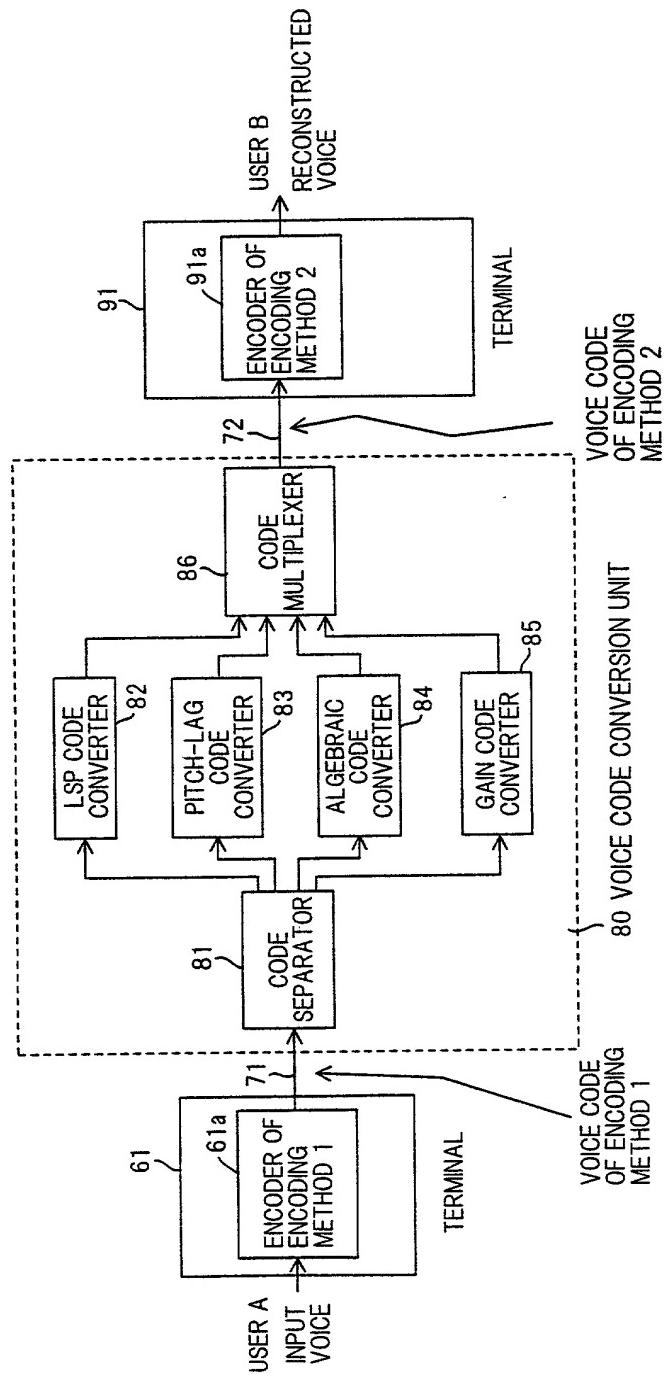


FIG. 2

Method 1
Method 2
Method 3
Method 4

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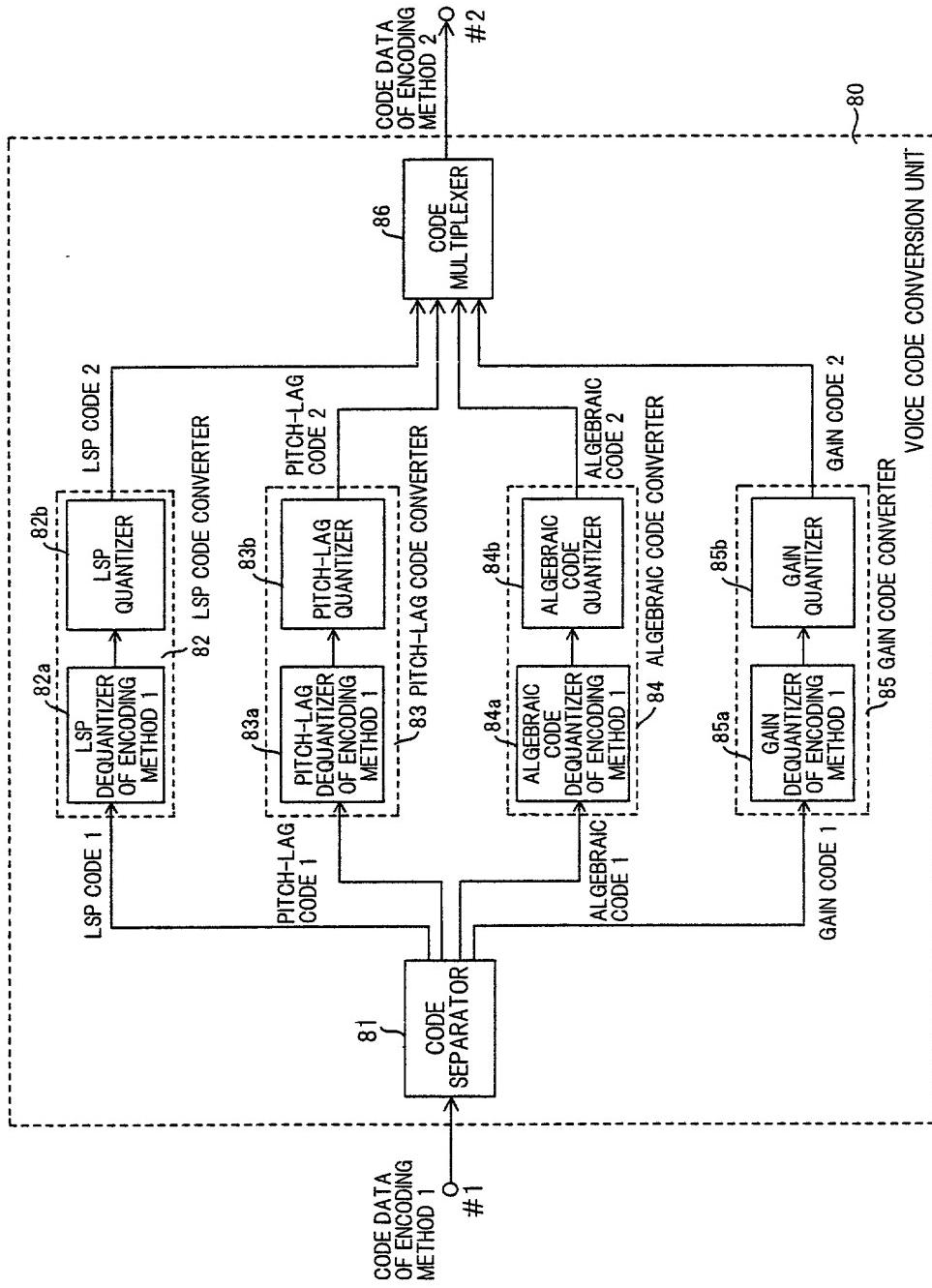


FIG. 3

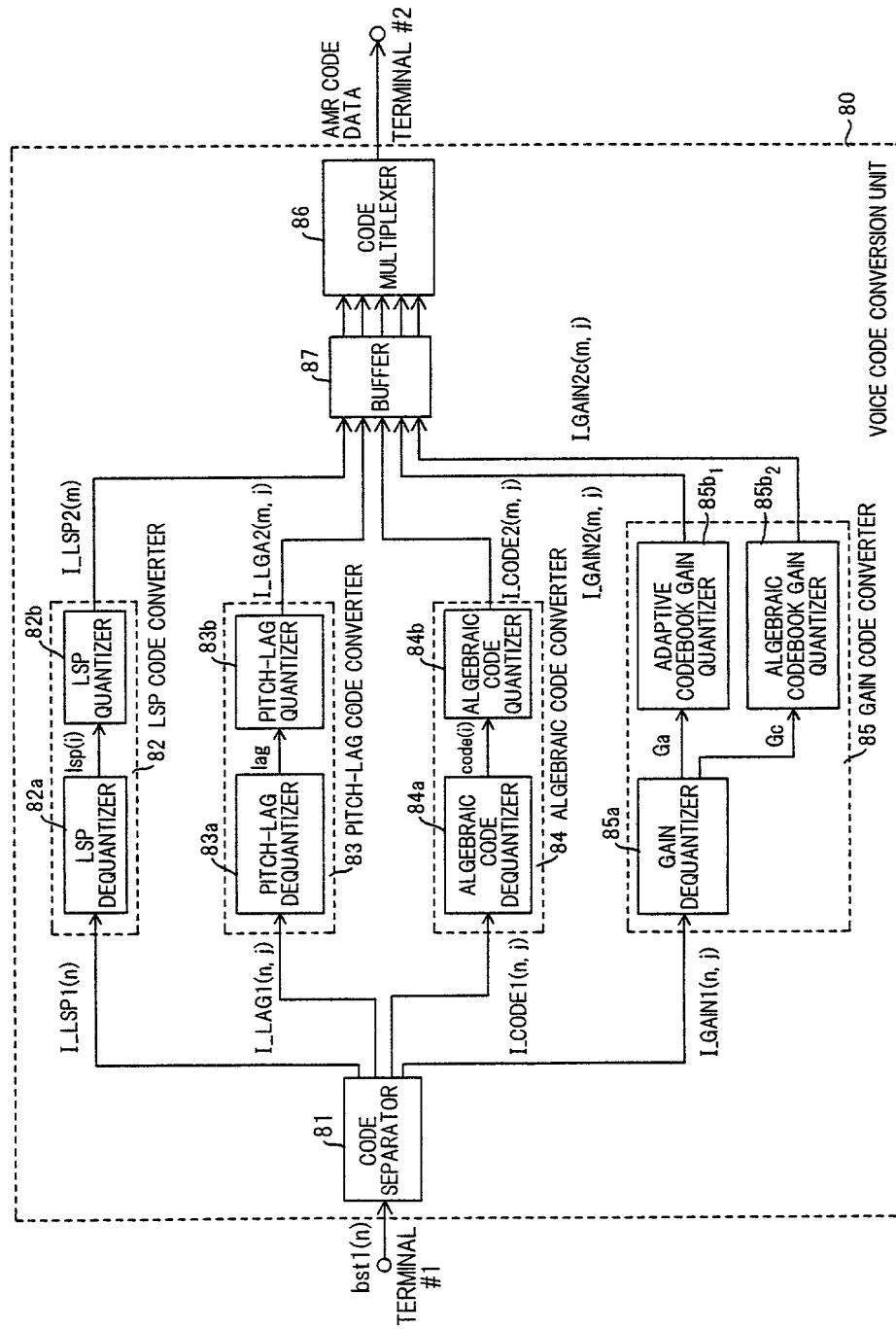
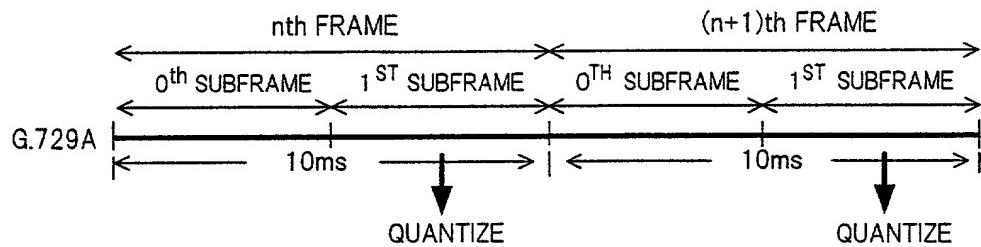
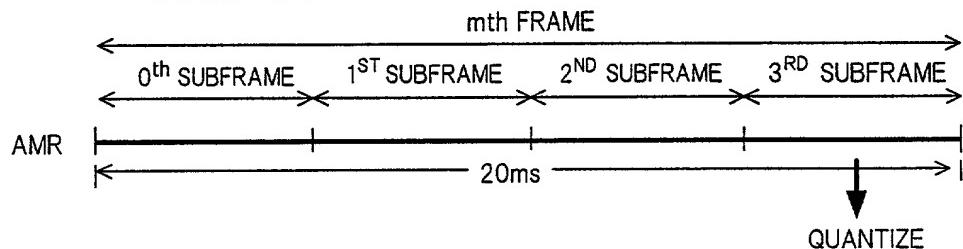


FIG. 4A**FIG. 4B****FIG. 6**

(a)

	SUBFRAME NO. / FRAME NO.			
G.729	0/n	1/n	0/(n+1)	1/(n+1)
AMR	0/m	1/m	2/m	3/m

CORRESPONDS TO NUMBER OF BITS OF PITCH-LAG CODE IN EACH SUBFRAME

(b)

	PITCH-LAG CODE (NUMBER OF BITS)			
G.729	8	5	8	5
AMR	8	6	8	6

CORRESPONDS TO NUMBER OF BITS OF ALGEBRAIC CODE IN EACH SUBFRAME

(c)

	ALGEBRAIC CODE			
G.729	17	17	17	17
AMR	17	17	17	17

FIG. 5

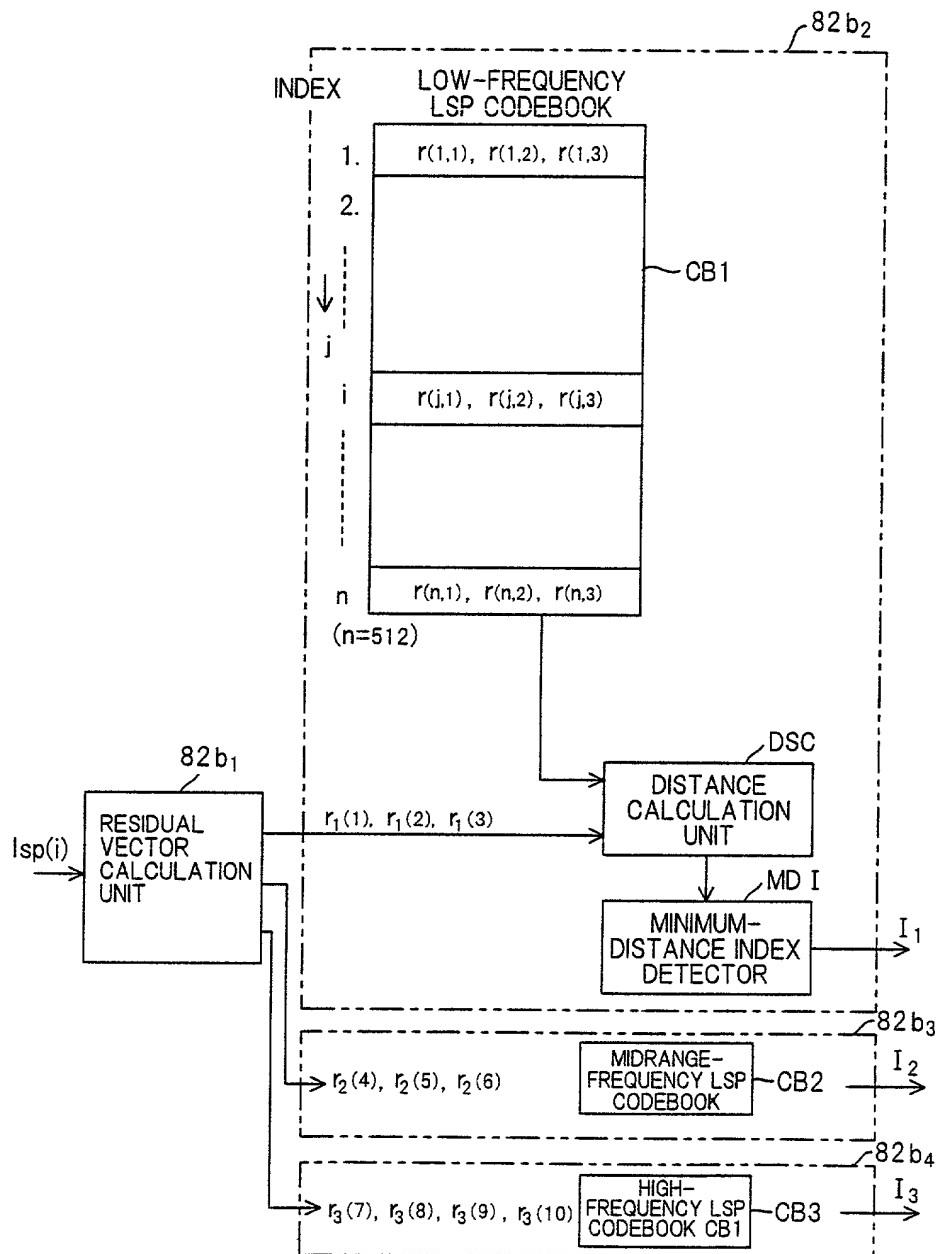


FIG. 7A

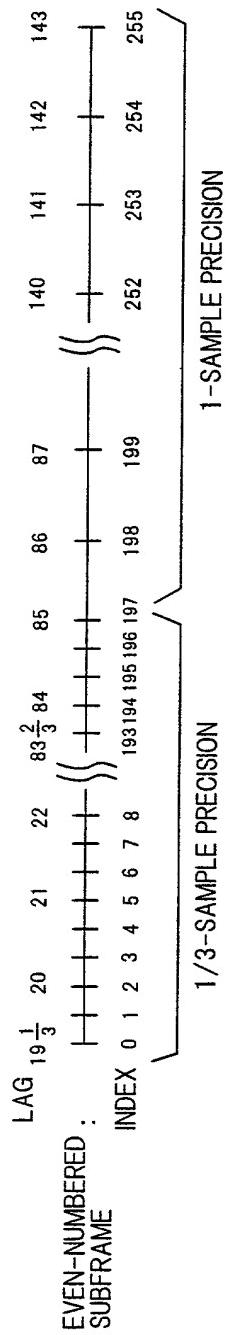


FIG. 7B

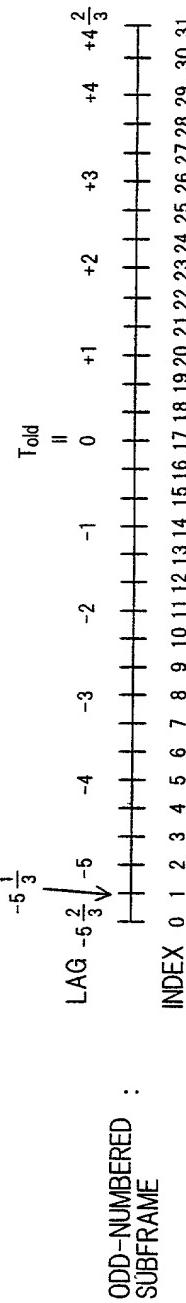


FIG. 8A

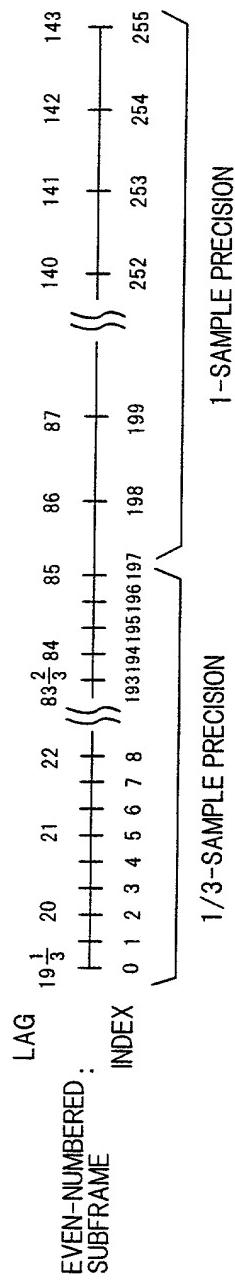


FIG. 8B

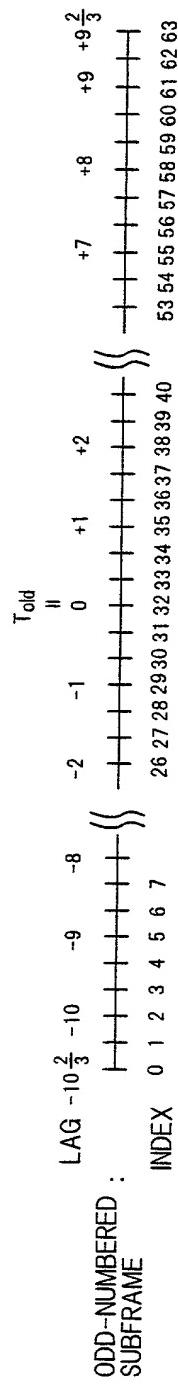


FIG. 9

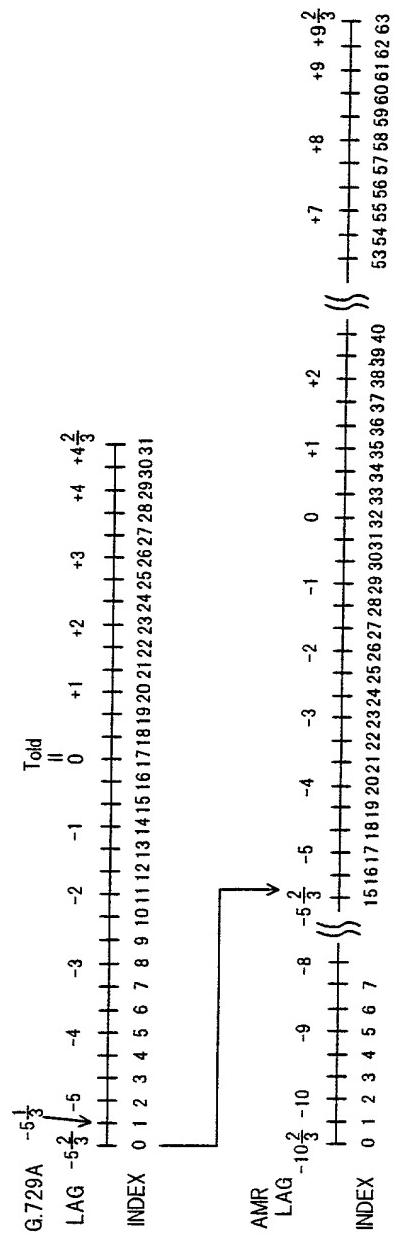
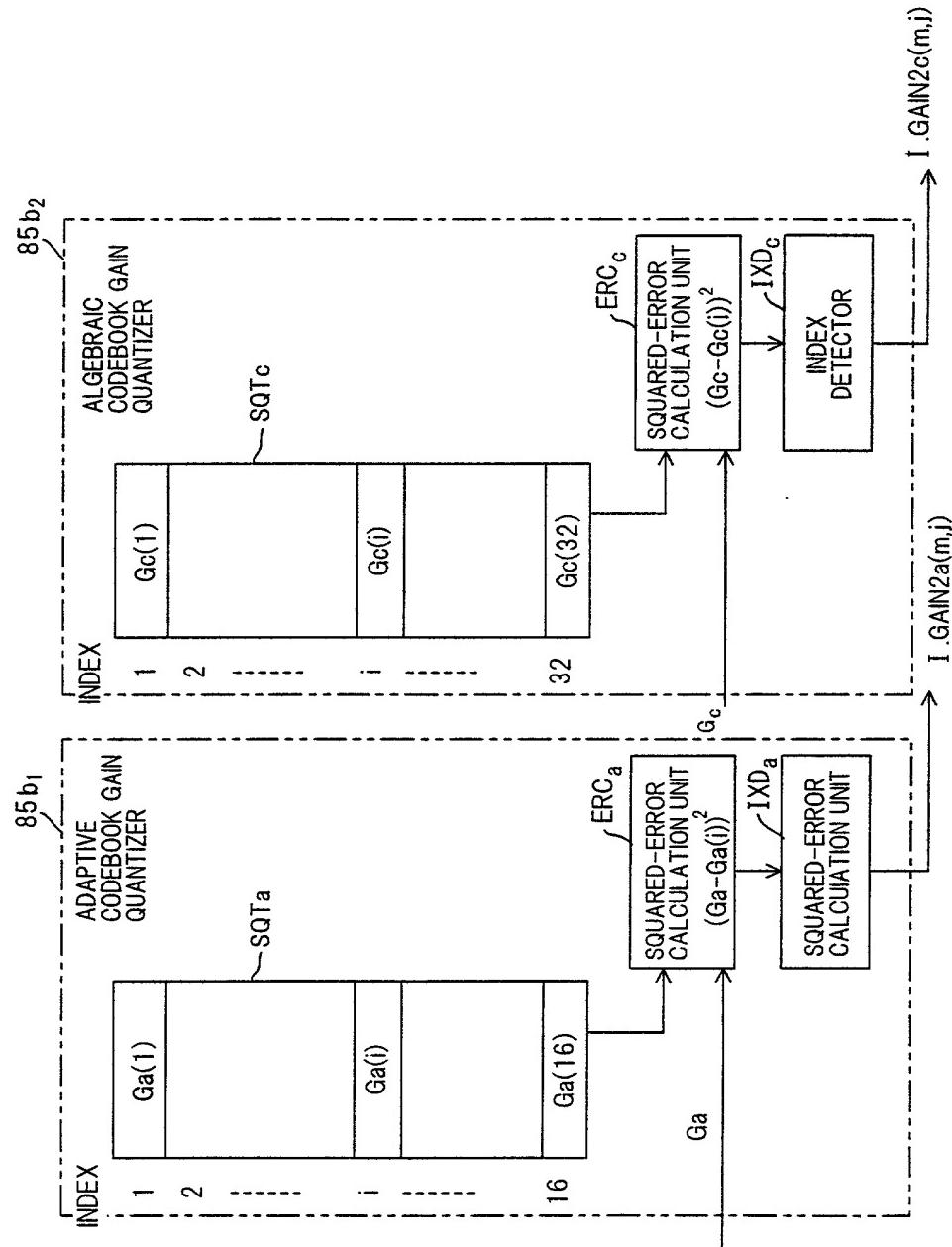
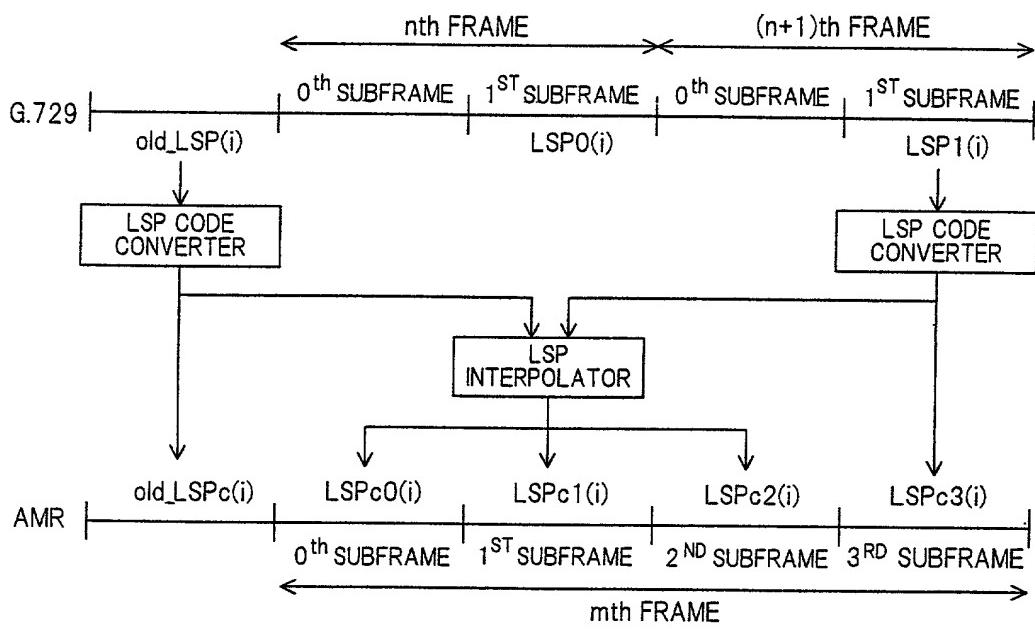


FIG. 10



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FIG. 11



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FIG. 12

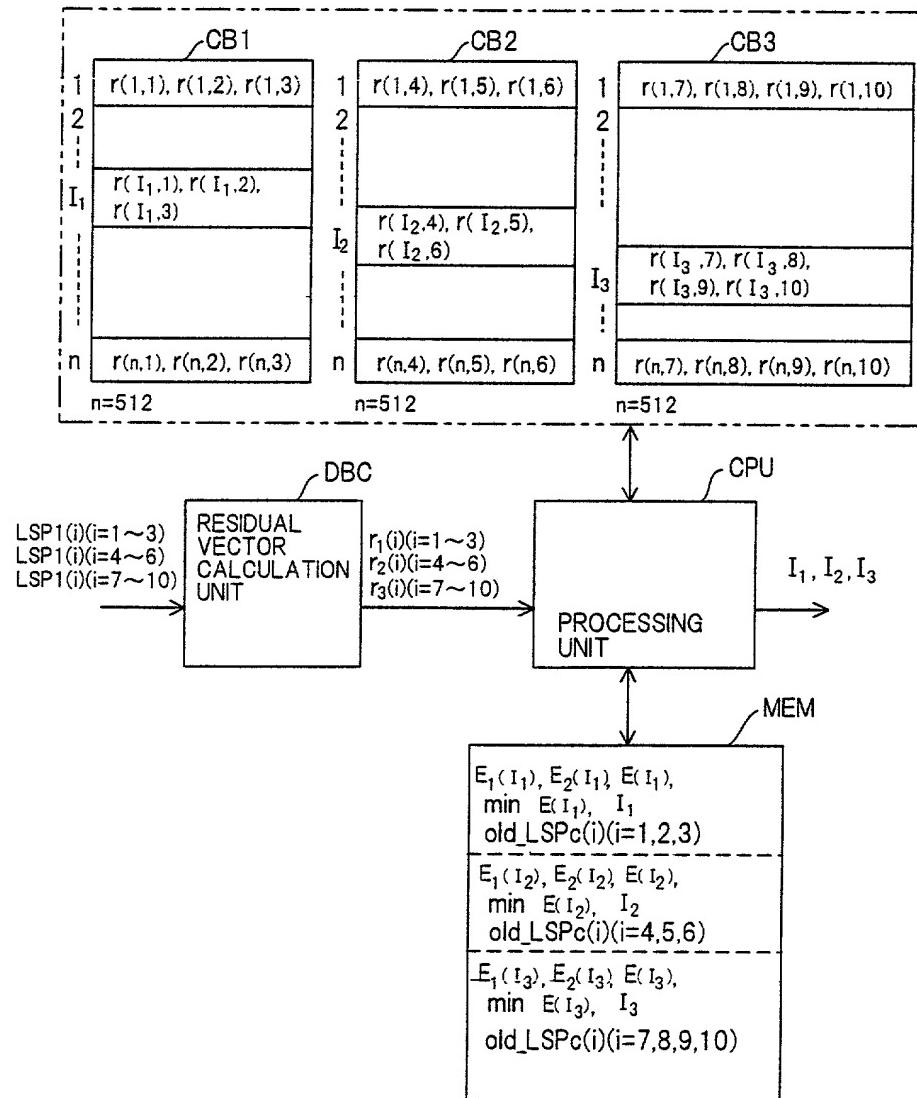


FIG. 13

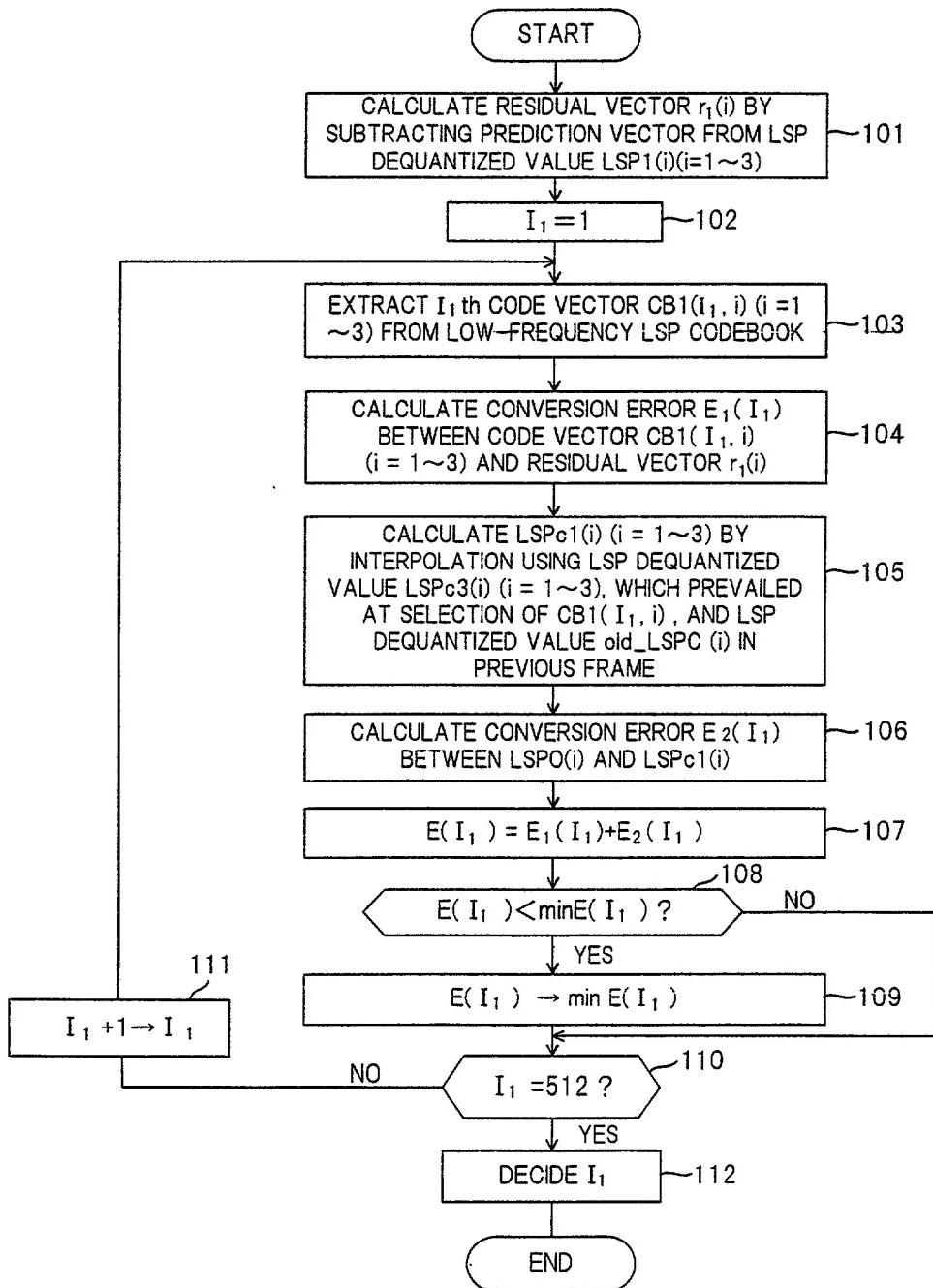


FIG. 14

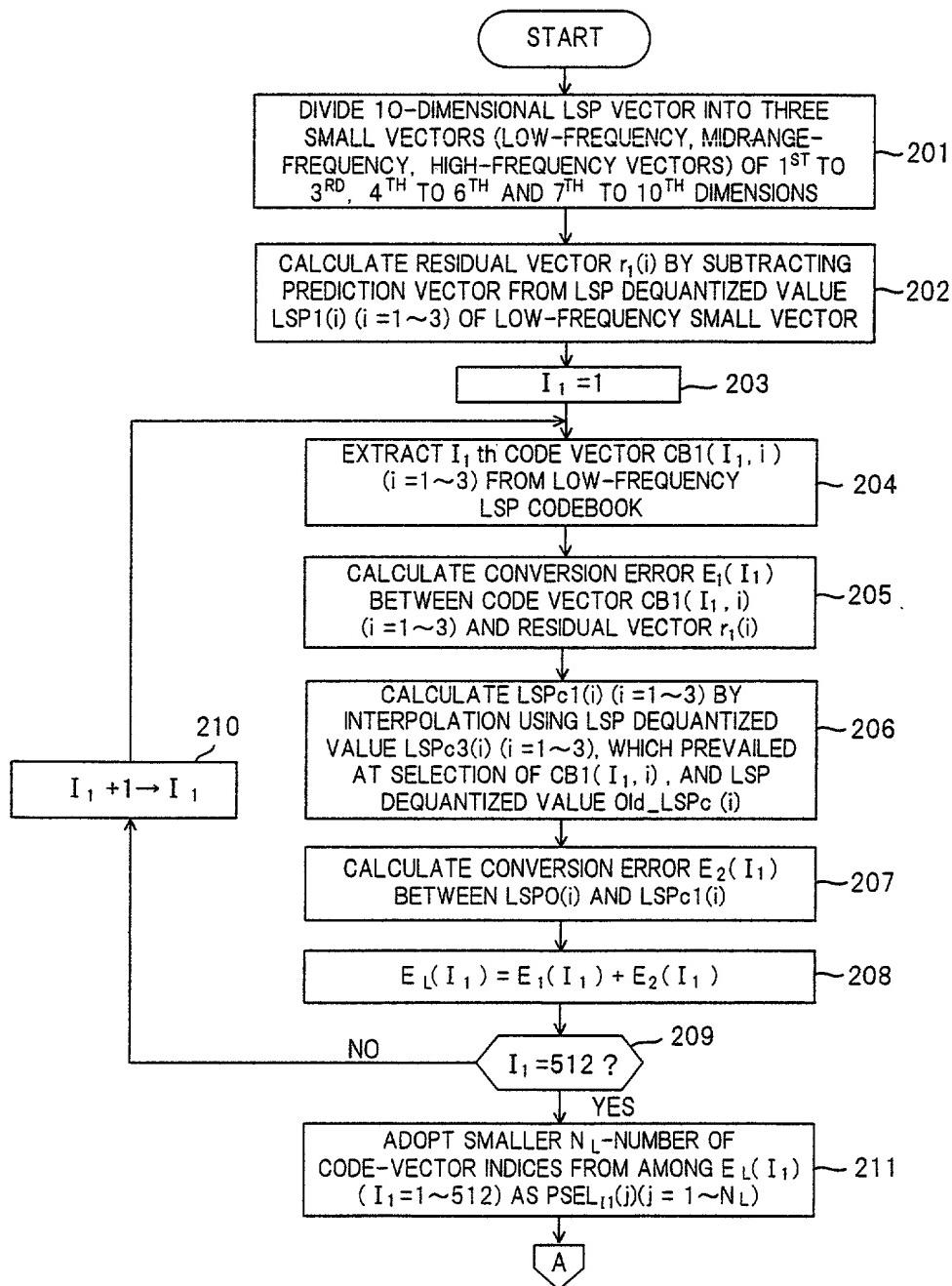


FIG. 15

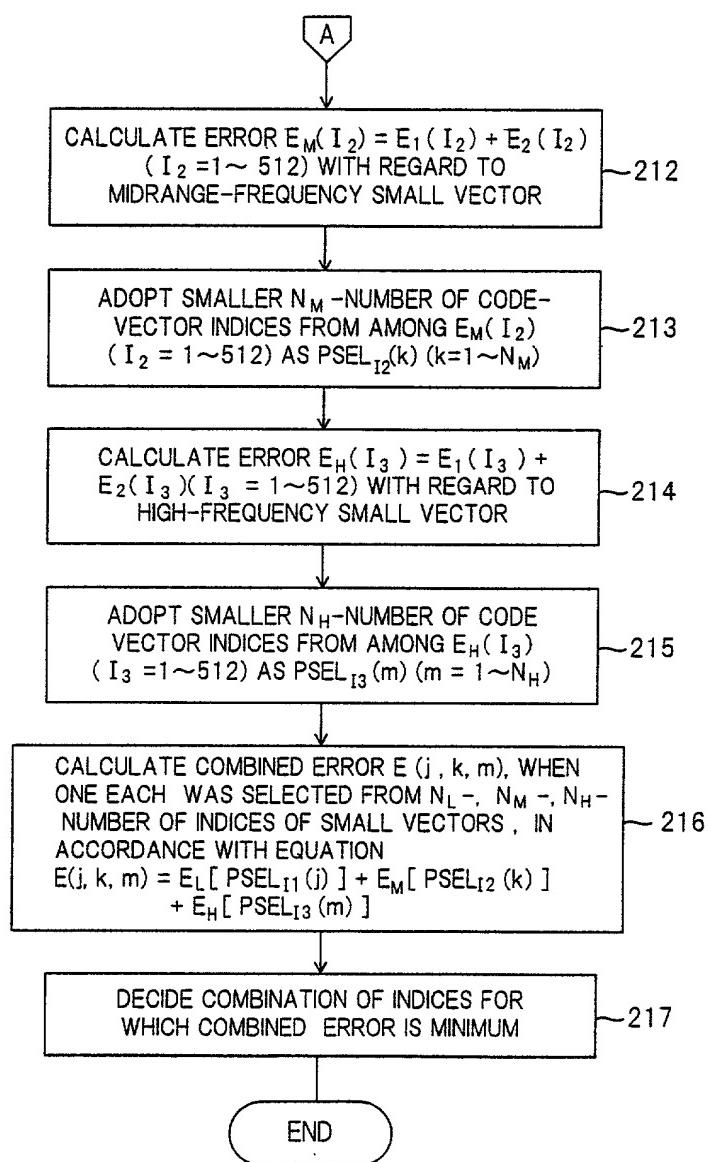
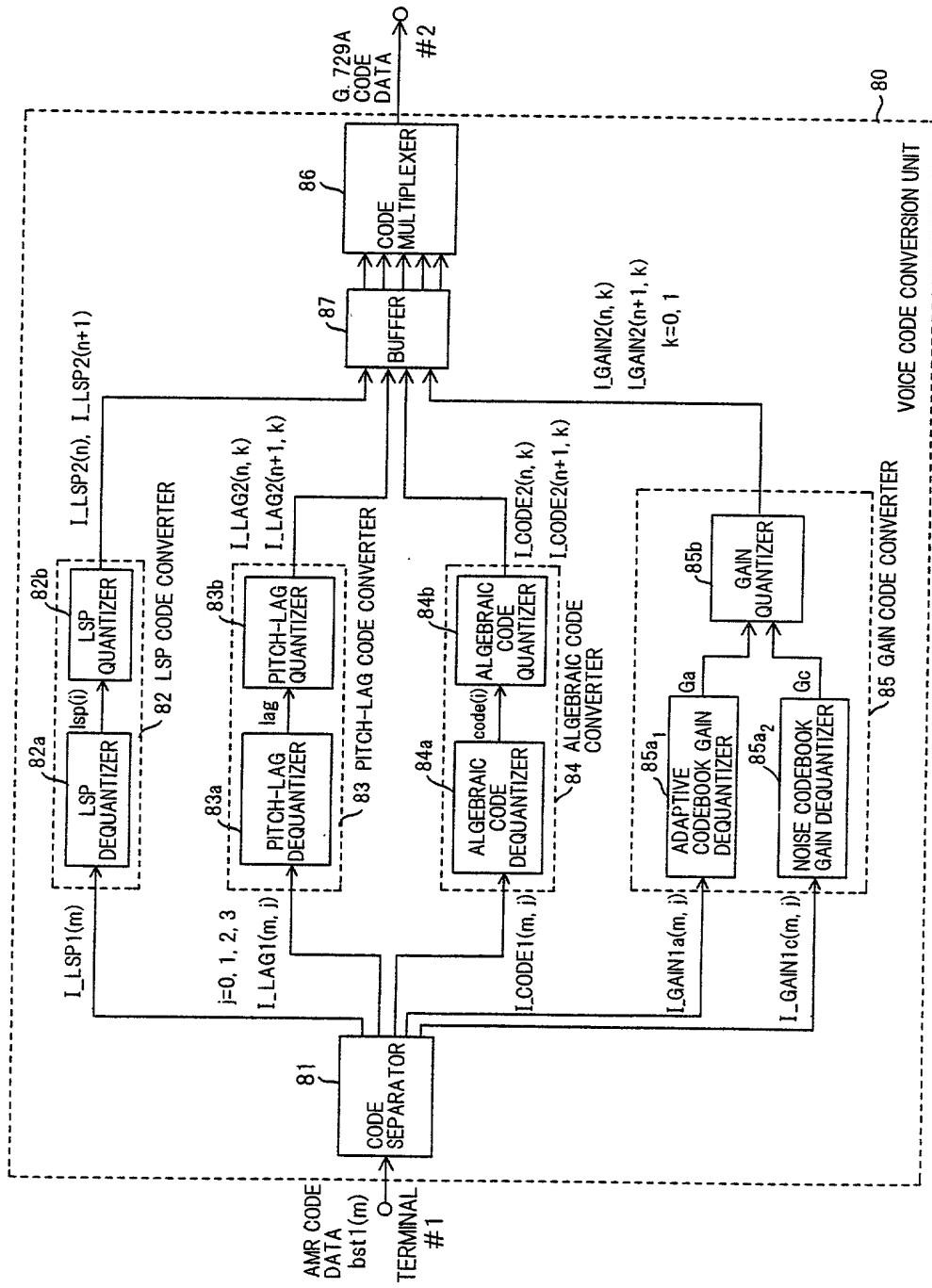


FIG. 16

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~80

VOICE CODE CONVERSION UNIT

VOICE CODE CONVERSION UNIT

VOICE CODE CONVERSION UNIT

~80

VOICE CODE CONVERSION UNIT

Fig. 17

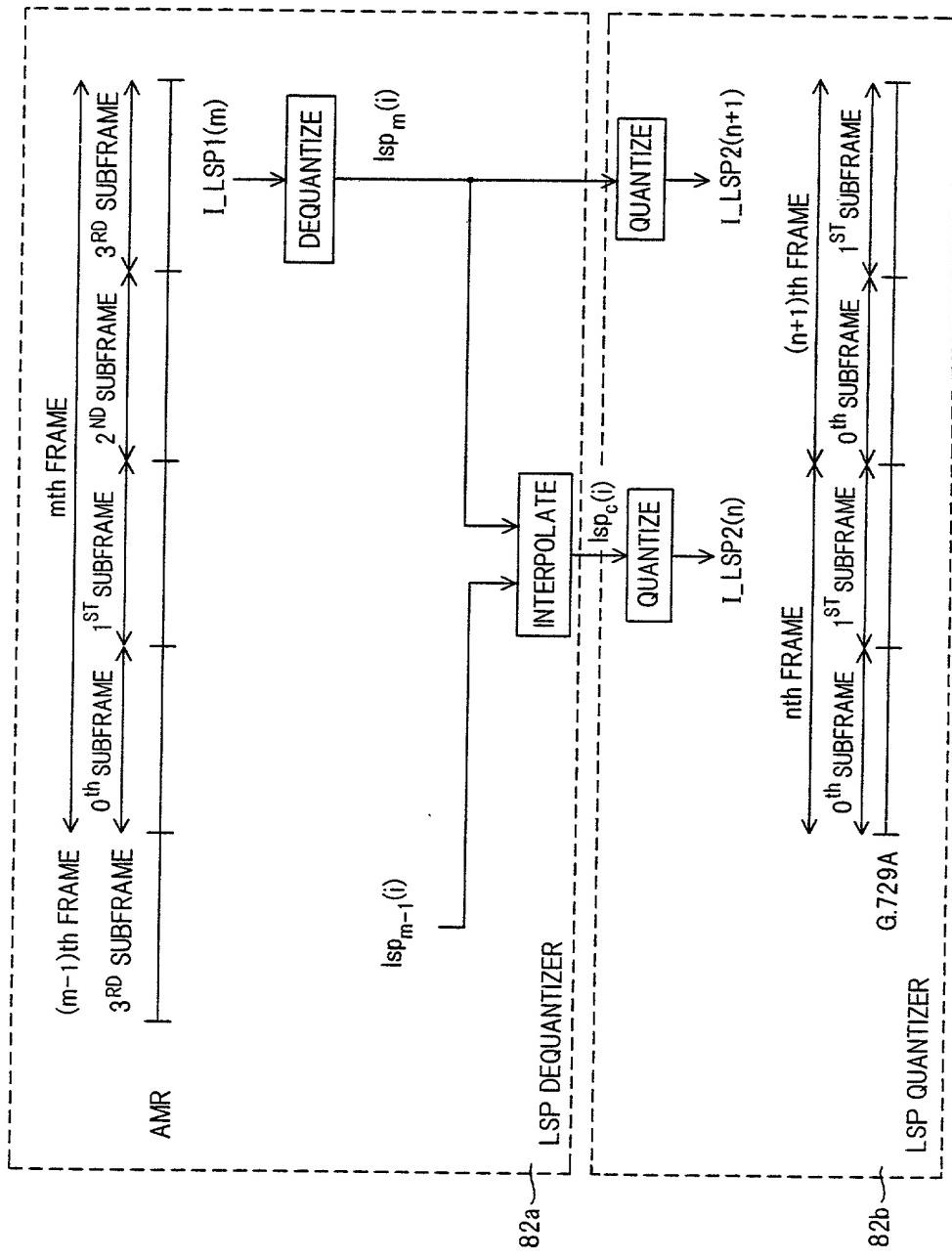


FIG. 18

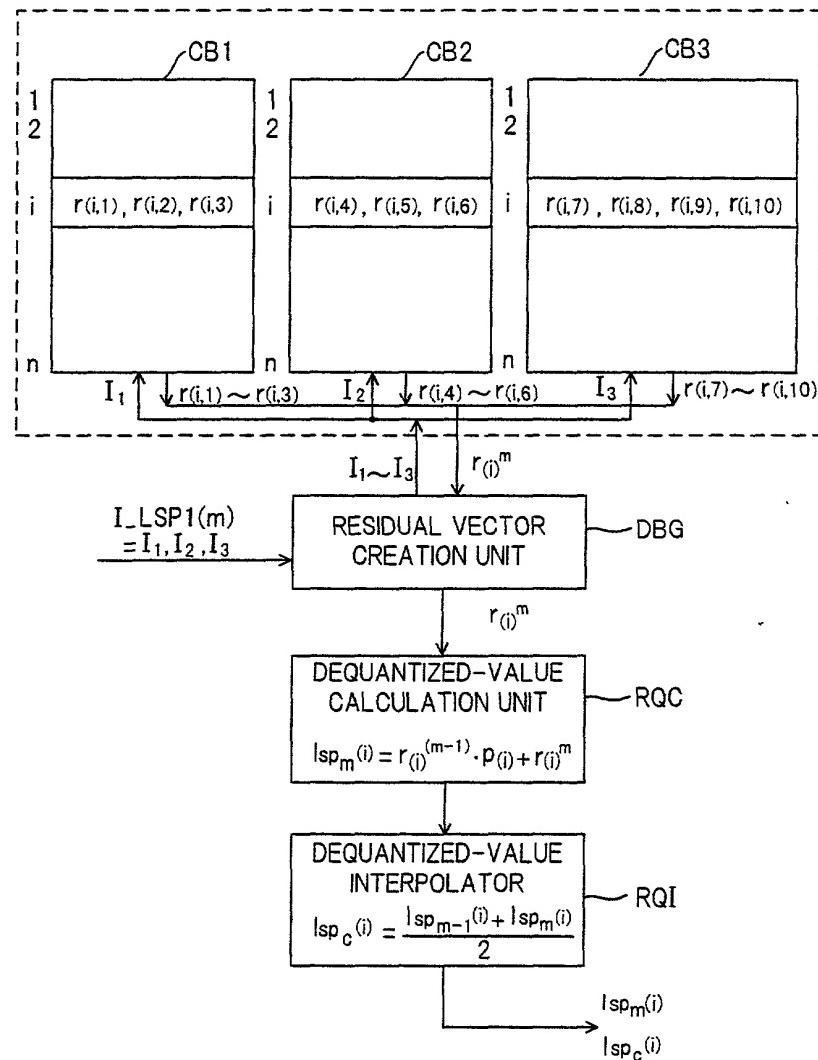


FIG. 19

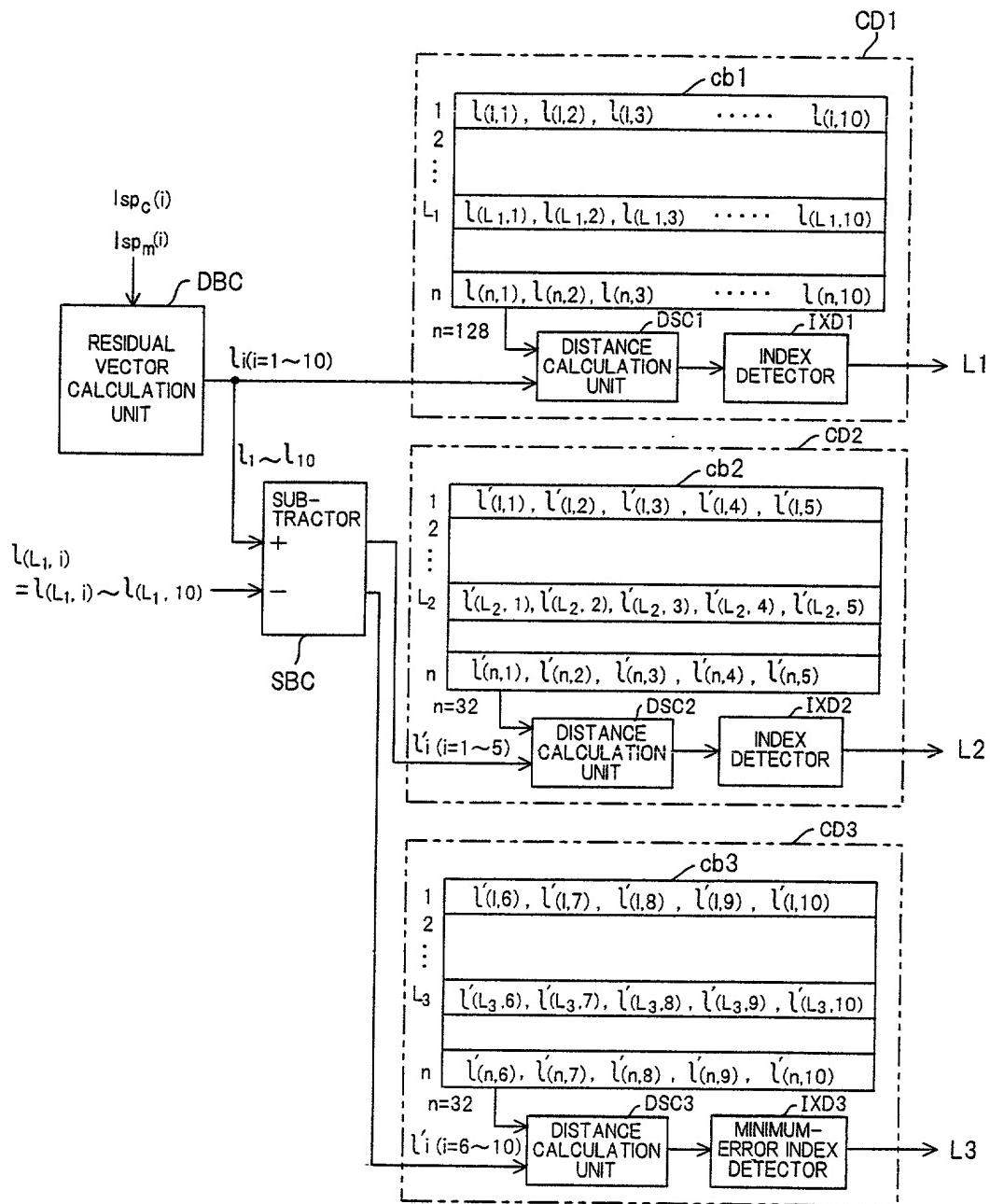


FIG. 20

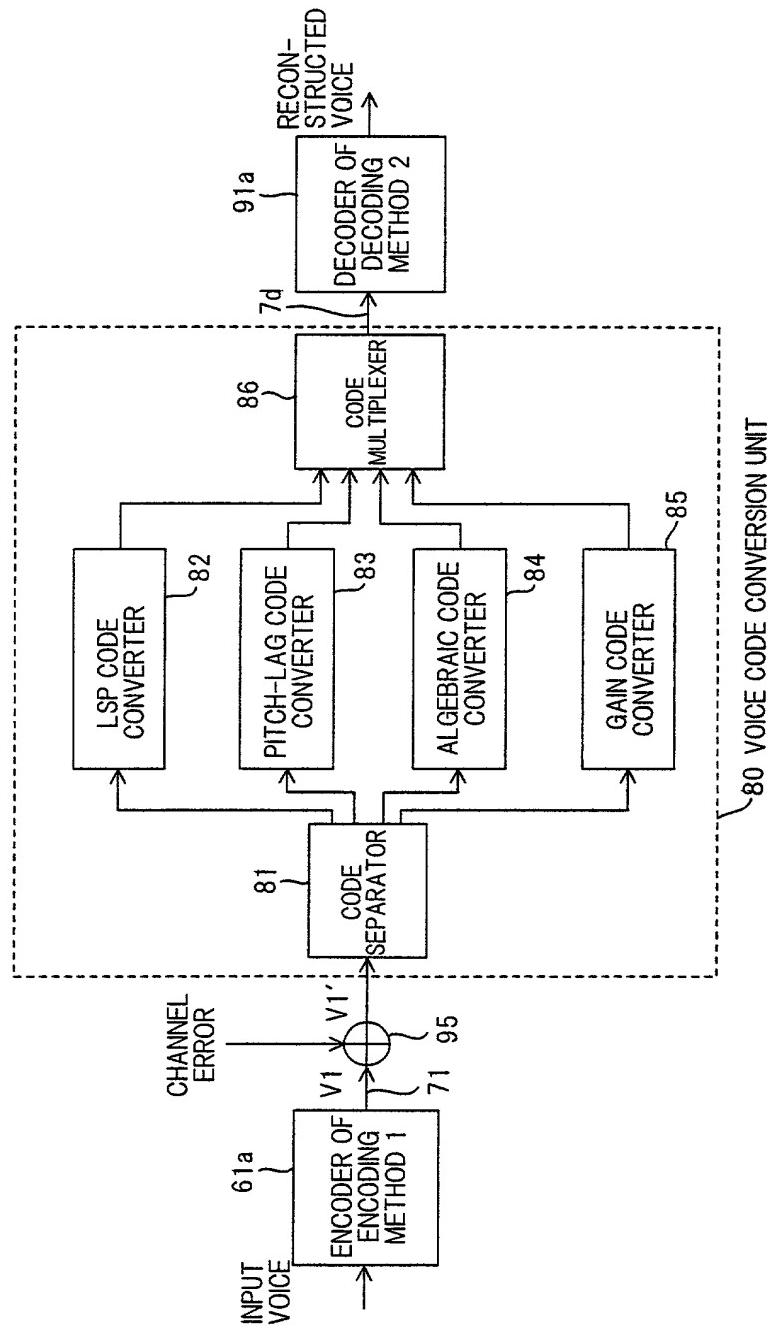


FIG. 21

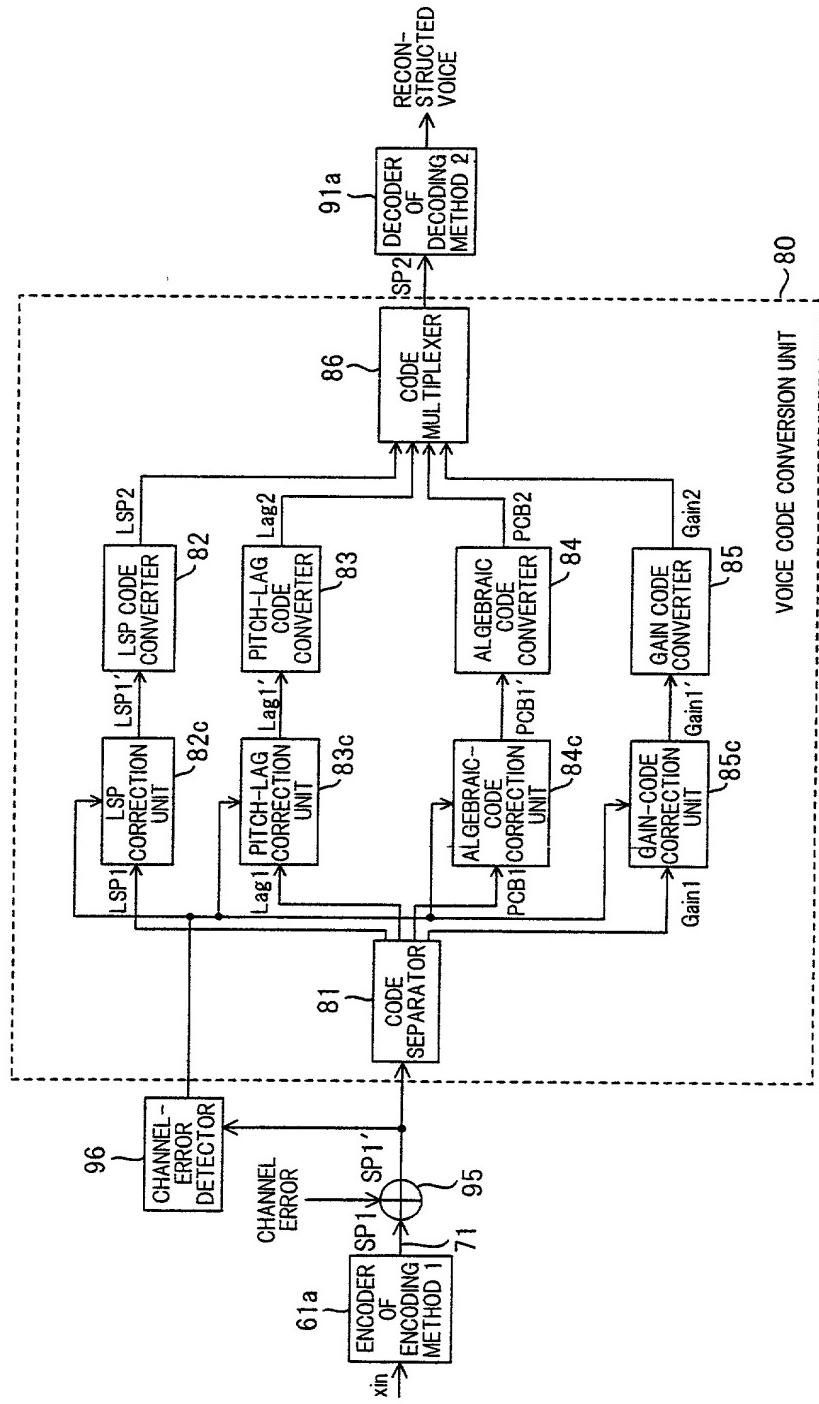


FIG. 22

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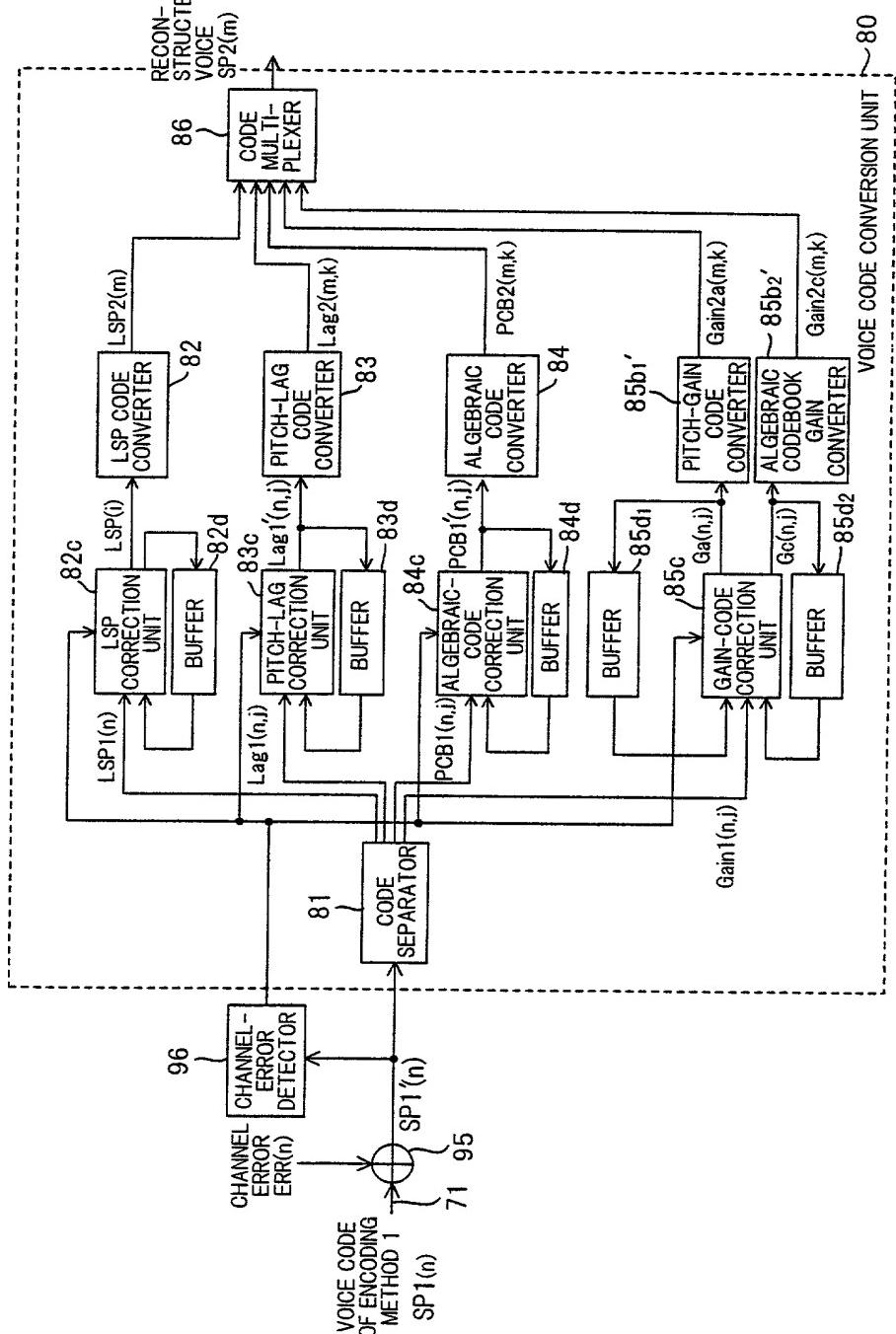


FIG. 23 PRIOR ART

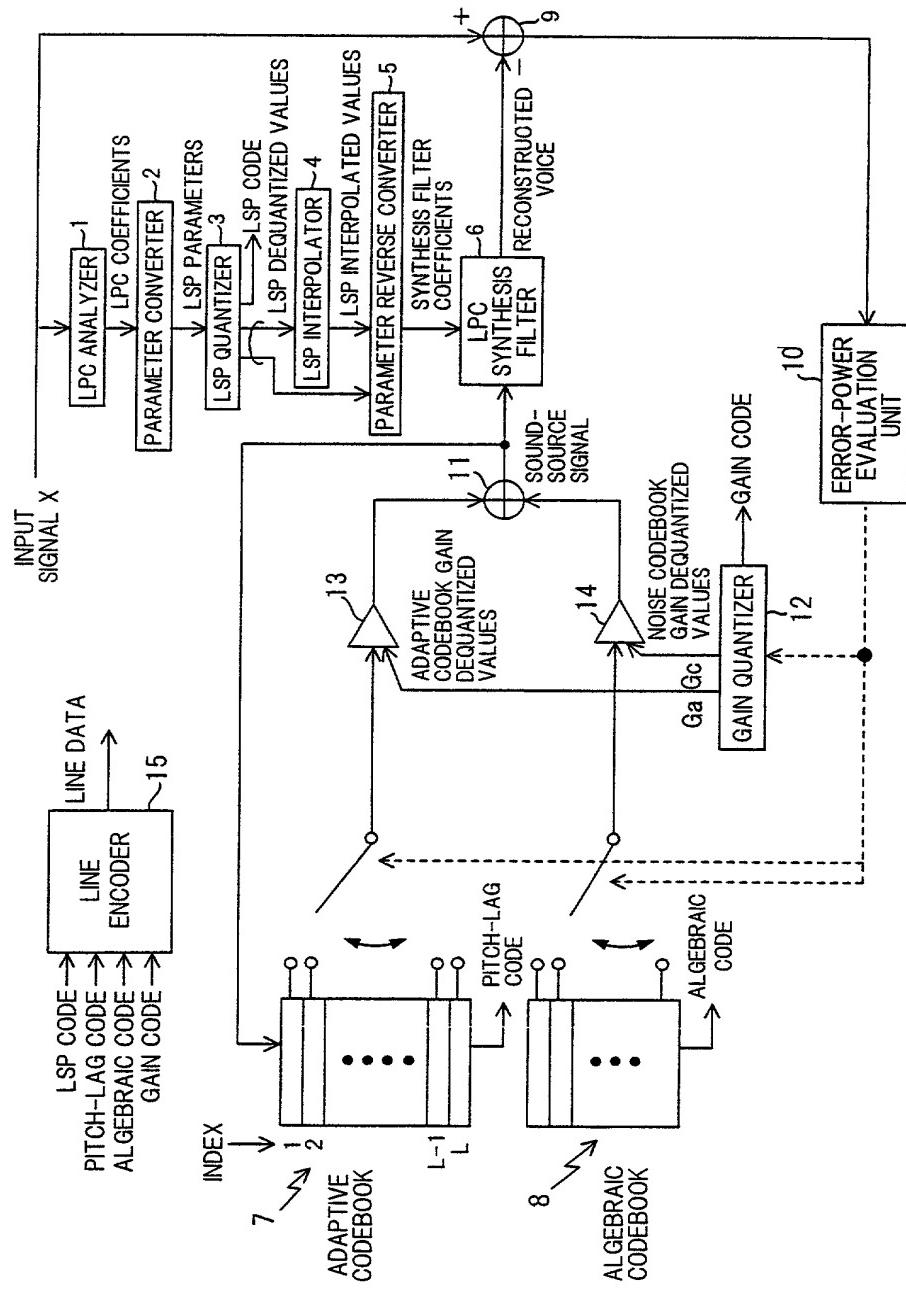


FIG. 24 PRIOR ART

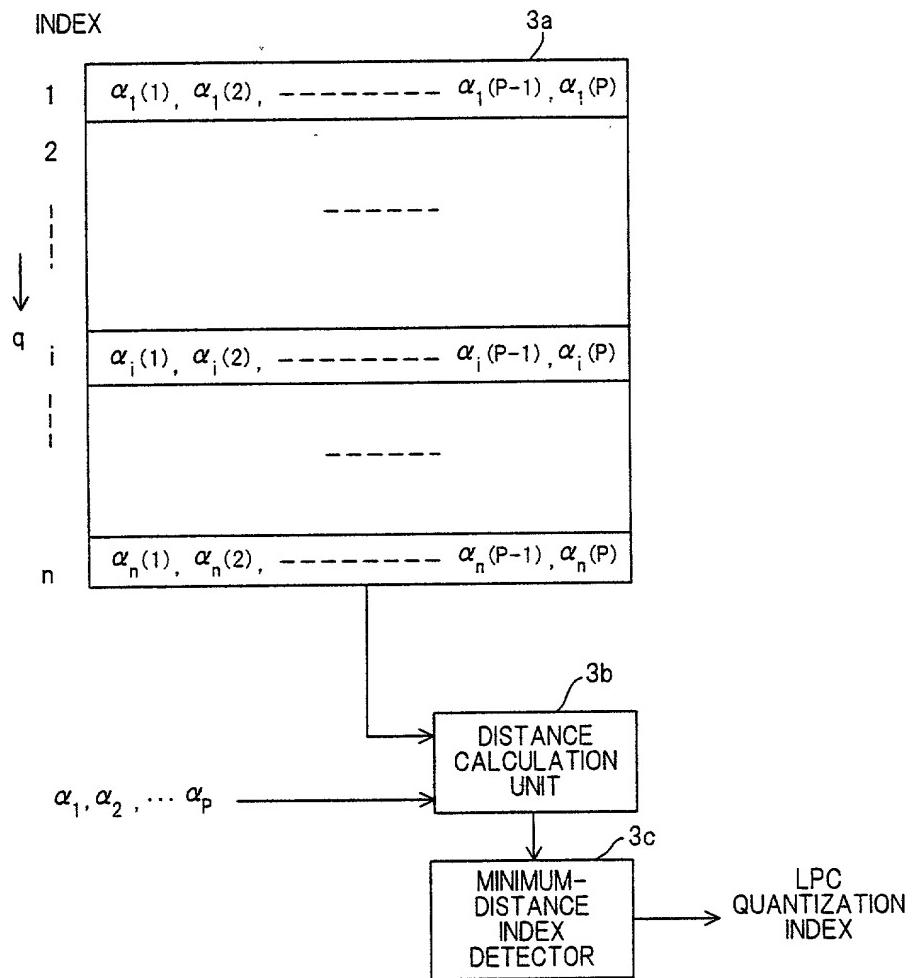


FIG. 25 PRIOR ART

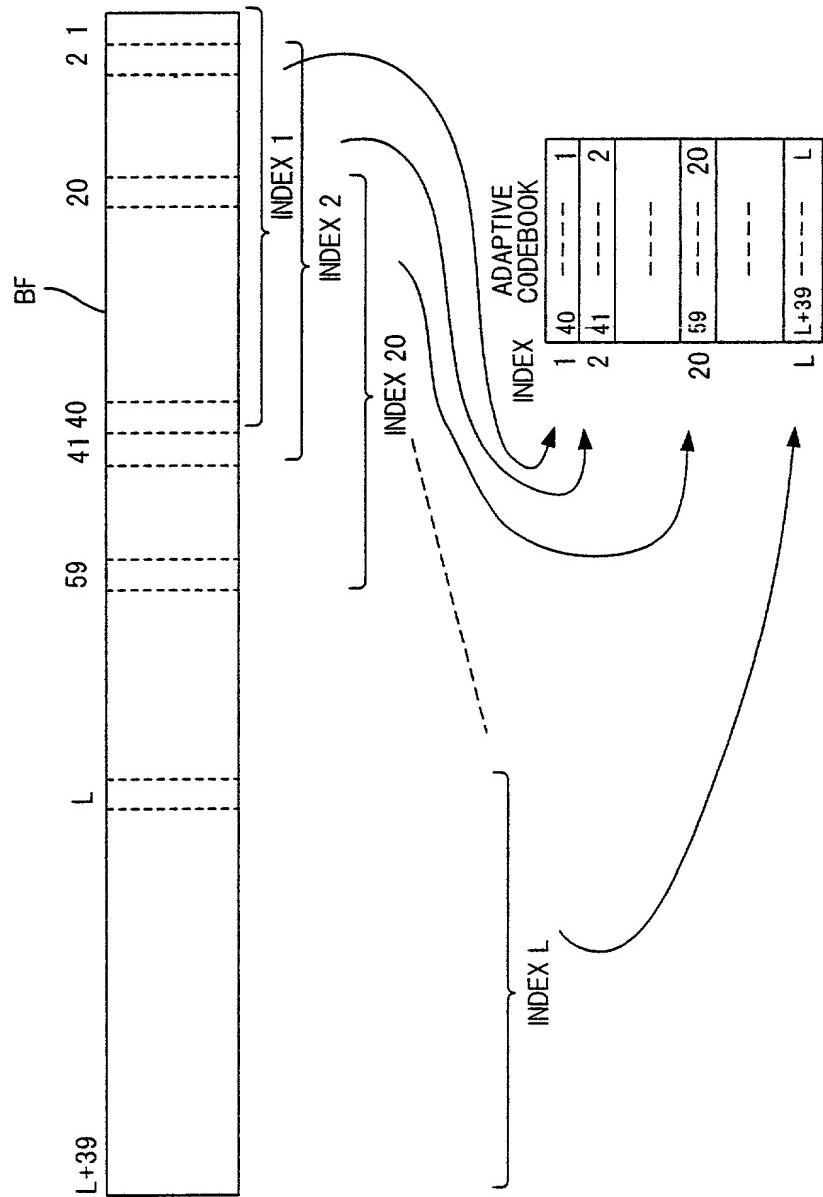


FIG. 26 PRIOR ART

PULSE SYSTEM	PULSE POSITION	POLARITY
1	0,5,10,15,20,25,30,35	+/-
2	1,6,11,16,21,26,31,36	+/-
3	2,7,12,17,22,27,32,37	+/-
4	3,8,13,18,23,28,33,38 4,9,14,19,24,29,34,39	+/-

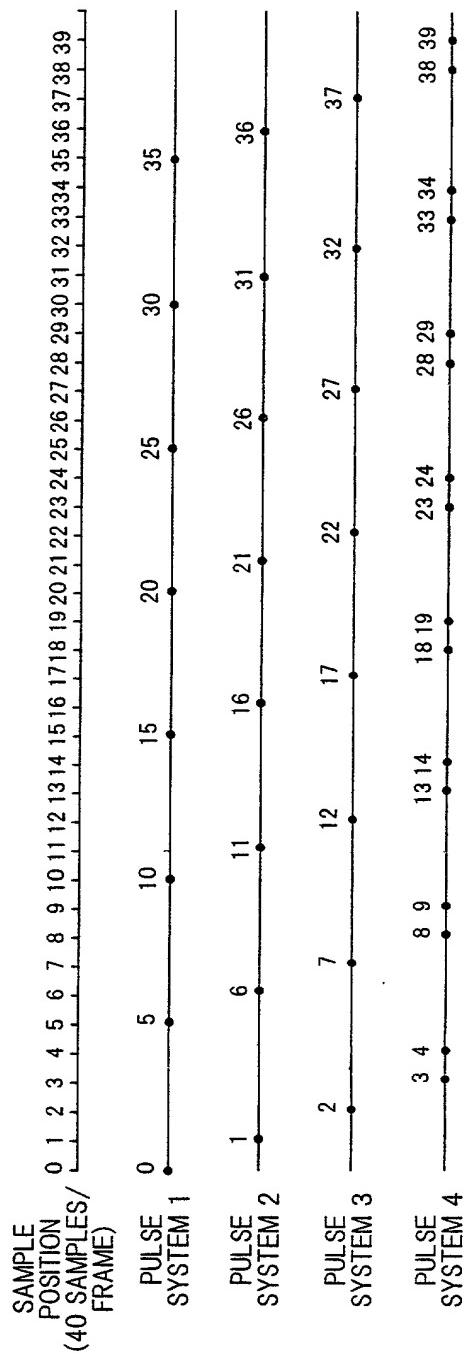
FIG. 27 PRIOR ART

FIG. 28 PRIOR ART

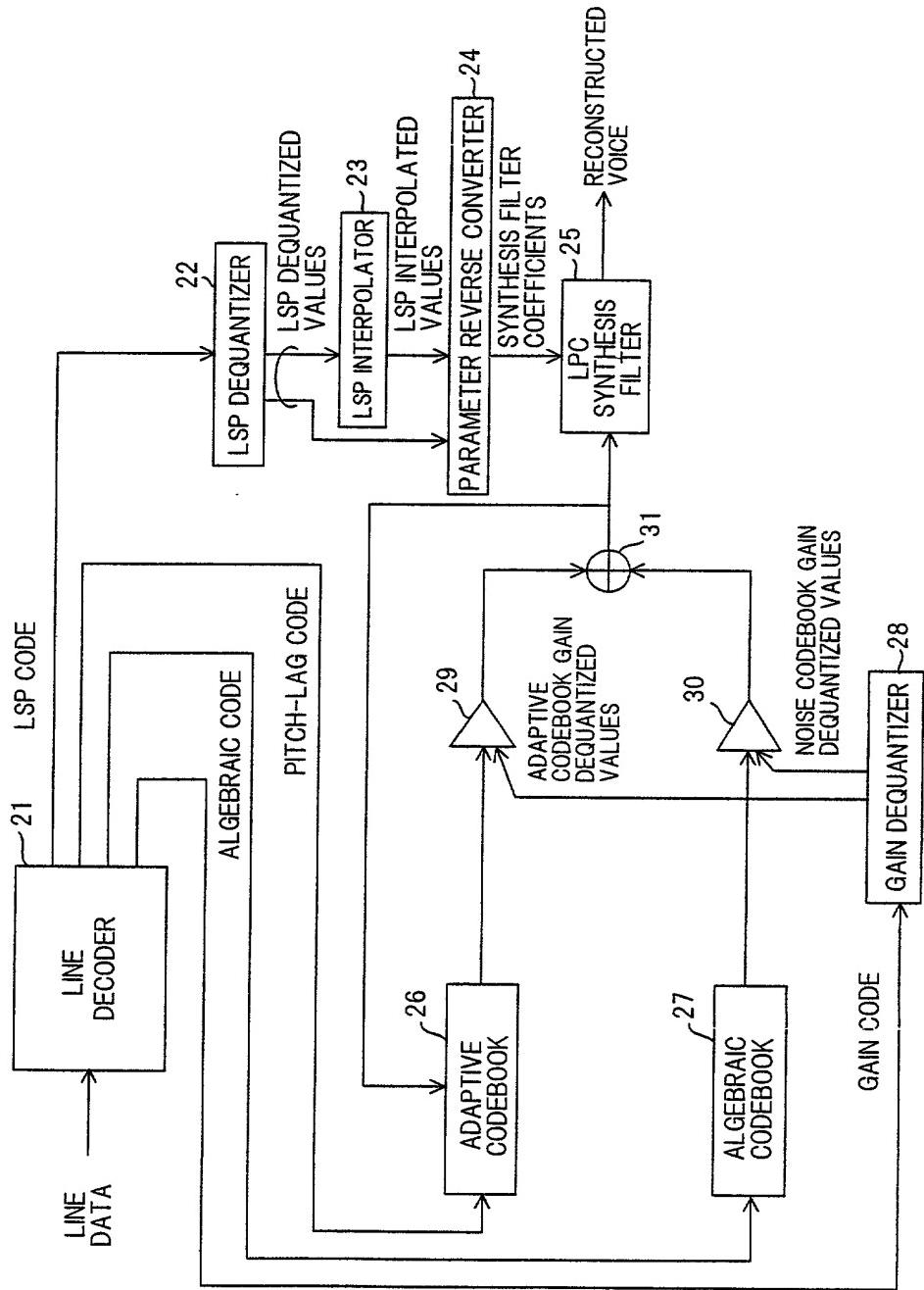


FIG. 29 PRIOR ART

	ITU-T G.729A	GSM-AMR
SAMPLING FREQUENCY	8kHz	8kHz
FRAME LENGTH	10ms	20ms
SUBFRAME LENGTH	5ms	5ms
NUMBER OF SUBFRAMES	2	4
BASIC DELAY	15ms	20ms
LINEAR PREDICTION DEGREE	10	10

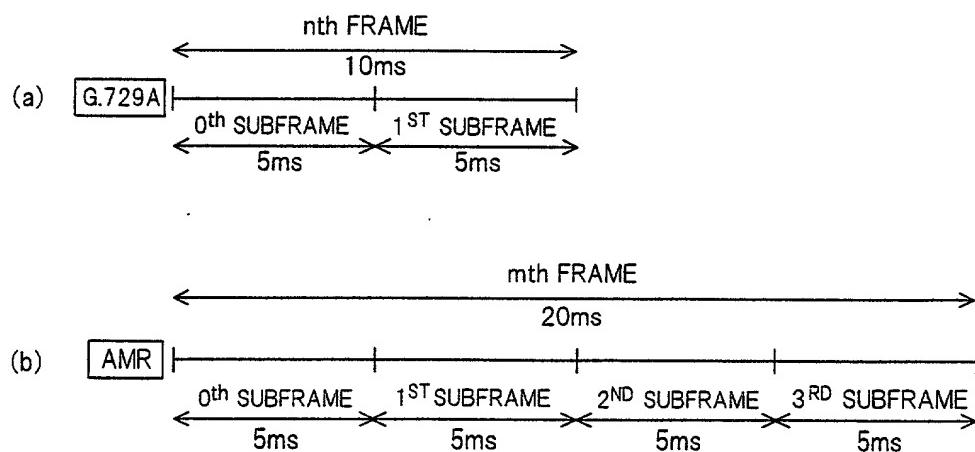
FIG. 30 PRIOR ART

FIG. 31 PRIOR ART

	ITU-T G.729A	AMR (7.95-kbps MODE)
PARAMETER	BIT LENGTH (SUBFRAME/FRAME)	BIT LENGTH (SUBFRAME/FRAME)
LSP CODE	-/18	-/27
PITCH-LAG CODE	8+5/13	8+6+8+6/28
PITCH PARITY	1/1	—
ALGEBRAIC CODE	17+17/34	17+17+17+17/68
GAIN CODE	7+7/14	—
ADAPTIVE CODEBOOK GAIN CODE	—	4+4+4+4/16
ALGEBRAIC CODEBOOK GAIN CODE	—	5+5+5+5/20
TOTAL	80bit/10ms	159bit/20ms

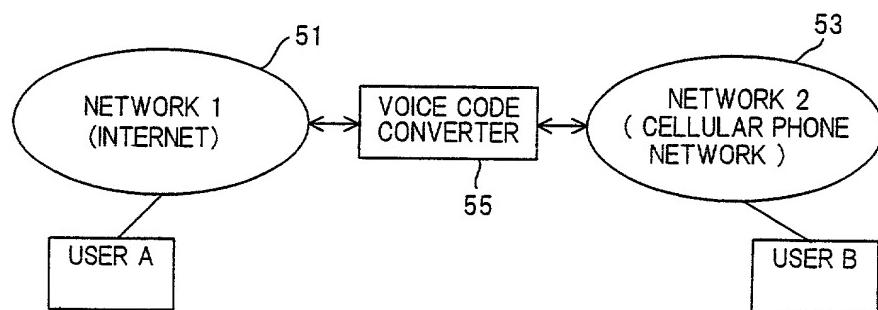
FIG. 32 PRIOR ART

FIG. 33 PRIOR ART

